Agricultural Drift Cases¹ Reported by California Physicians as Associated With² Pesticide Exposure Summarized by the Activity of the Exposed Person and by the Type of Application Equipment Used 2003

Type of Application Equipment Used ³	Type of Activity ⁴				TOTAL
	Routine	Routine	Field	0.0	
	Indoor	Outdoor	Worker	Other	
Fixed Wing Aircraft	1	1	8	3	13
Helicopter	0	3	0	0	3
Airblast Sprayers	0	0	2	3	5
Power Dusters	0	1	0	0	1
Ground Boom, Other or Unspecified	0	3	0	1	4
Ground, Other or Unspecified	0	2	2	1	5
Shank Injection without Tarps	93	87	1	12	193
Pressurized Hose-Line Sprayers	0	0	6	0	6
Back Pack Sprayer	0	0	0	2	2
Hand, Other or Unspecified	1	0	0	0	1
Automatic Equipment, Chlorinators	0	0	0	1	1
Automatic Equipment, Other or	0	0	0	1	1
Unspecified					
Sprinkler Irrigation Equipment	8	7	0	4	19
Other	0	0	0	2	2
TOTAL	103	104	19	30	256

¹ Source: California Department of Pesticide Regulation, Pesticide Illness Surveillance Program

Definite: High degree of correlation between pattern of exposure and resulting symptomatology. Requires both medical evidence (such as measured cholinesterase inhibition, positive allergy tests, characteristic signs observed by medical professional) and physical evidence of exposure (environmental and/or biological samples, exposure history) to support the conclusions.

Probable : Relatively high degree of correlation exists between the pattern of exposure and the resulting symptomatology. Either medical or physical evidence is inconclusive or unavailable.

Possible : Some degree of correlation evident. Medical and physical evidence are inconclusive or unavailable.

² Associated With: Includes cases classified as definitely, probably or possibly related to pesticide exposure

³ **Type of Equipment Used:** Defines the type of application equipment regardless of who performed the application. If the type of equipment is not represented on the table, there were no cases involving that type of equipment for the year of the report.

Fixed Wing

: Fixed wing aircraft.

Aircraft

Helicopter : Helicopter.

Airblast Sprayers

: Ground application equipment with a pump that delivers spray into an air stream created by a

large fan at the back of the spray equipment.

Power Dusters

: Ground application equipment used to apply dust formulated pesticides.

Ground. Other Or. Unspecified

: Ground application equipment, unknown or unspecified. This includes two or more types of

ground application equipment

Ground Boom, Other Or Unspecified

: Ground application equipment with a spray boom. The following are excluded: 1) Ground

Boom Below/Behind, 2) Over-The-Vine Boom, and 3) Electrostatic Sprayer.

Shank Injection : Ground application equipment that uses a shank or other piece of equipment to directly apply Without Tarps a pesticide into the soil except when a tarp is placed over the soil, which is classified under

> shank injection with tarps. This also excludes surface applied pesticides that are subsequently incorporated into the soil by a cultivator.

Pressurized Hose-Line Sprayers

: Hand-held spray equipment attached by a long hose to a power-pressurized tank. This excludes hose-end sprayers, which are classified under hand, other or unspecified.

Back Pack Sprayer : Compressed air sprayer where the tank is worn on the back of the applicator.

Hand. Other or Unspecified

: Hand-held application equipment, other or unspecified. The equipment must propel the pesticide from a reservoir. This includes 1) hose-end sprayers, and 2) two or more types of hand-held application equipment. This excludes hand-held equipment already specified

above.

Automatic Equipment. Chlorinators : Chlorination units that automatically inject chlorine into water for disinfection purposes. This includes chlorinators for swimming pools, packing houses and food processing plants.

Automatic Equipment, Other Or Unspecified

: Equipment that automatically injects the pesticide to the target area. This includes equipment attached to milking machinery, dishwashers, etc. This excludes equipment already described above.

Equipment

Sprinkler Irrigation : Chemigation through sprinkler irrigation equipment.

Other : Any application methodology not described above. This includes two or more types of

application equipment not elsewhere specified.

⁴Type of Activity: Activity of the individual at the time of exposure.

Routine Indoor : Conducts activities in an indoor environment with minimal expectation for exposure to

pesticides. This includes people in offices and businesses, residential structures, etc. who are

not handling pesticides.

Routine Outdoor : Conducts activities in an outdoor environment with minimal expectation for exposure to

pesticides. This excludes field workers in agricultural fields. This includes gardeners who are

not handling pesticides.

Field Worker : Works in an agricultural field performing tasks such as advising, scouting, harvesting, thinning,

irrigating, driving tractor (except as part of an application), field packing, conducting cultural work in a greenhouse, etc. Researchers performing similar tasks in an agricultural field are also

included.

Other : Activity is not adequately described by any other activity category. This includes but is not

limited to: 1) being inside a vehicle; 2) dog groomers not handling pesticides; 3) individuals handling pesticide treated wood; 4) two or more activities with potential for pesticide

exposure.

Whom to Contact:

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About the Pesticide Illness Surveillance Program Data

Pesticide-related illnesses have been tracked within the state of California for more than 50 years. The California Environmental Protection Agency, Department of Pesticide Regulation (DPR) maintains a surveillance program which records human health effects of pesticide exposure. The Pesticide Illness Surveillance Program (PISP) documents information on adverse effects from pesticide products, whether elicited by the active ingredients, inert ingredients, impurities, or breakdown products. This program maintains a database, which is utilized for evaluating the circumstances of pesticide exposures resulting in illness. This database is consulted regularly by staff who evaluate(s) the effectiveness of the DPR pesticide safety programs and recommend changes when appropriate.